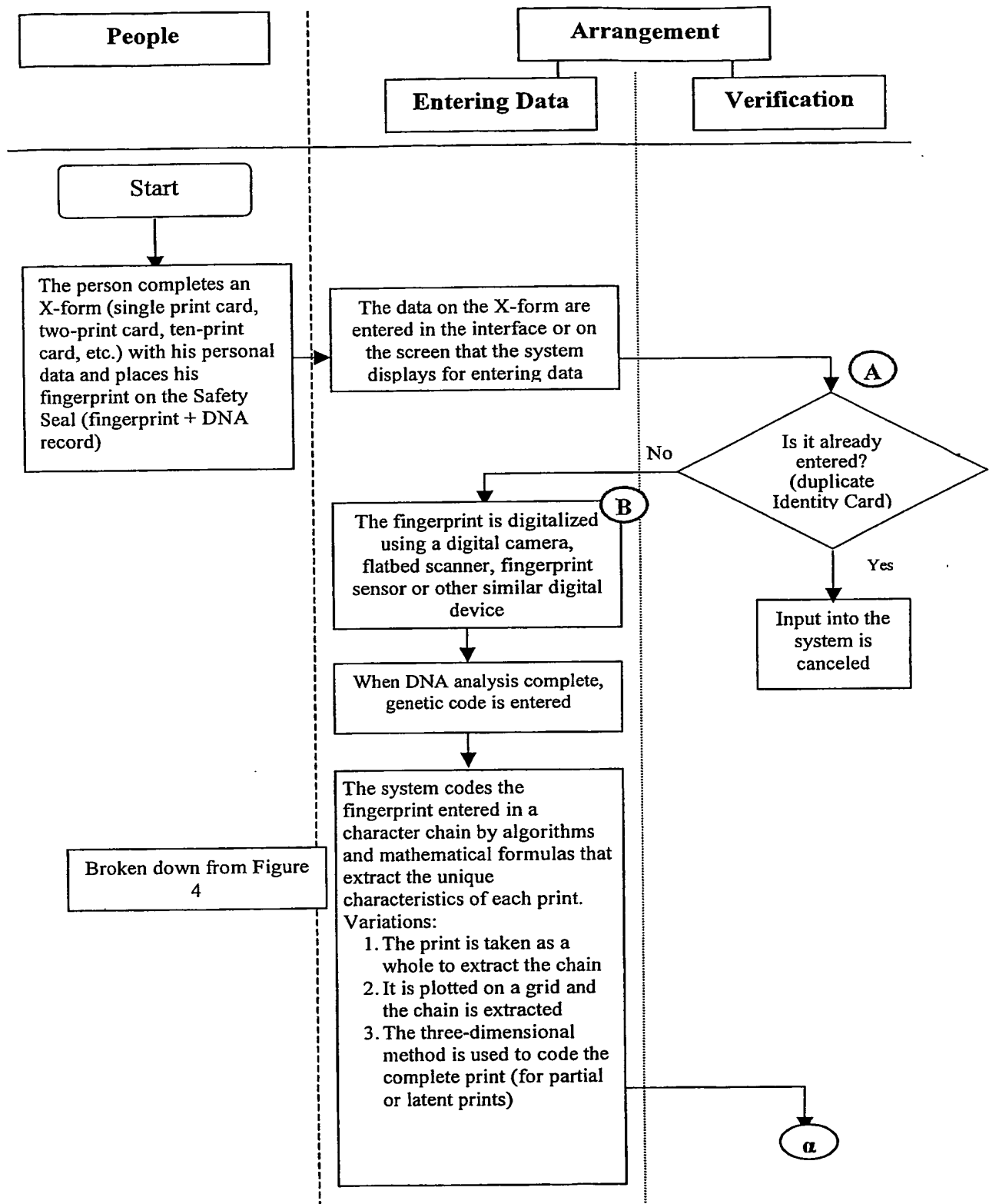
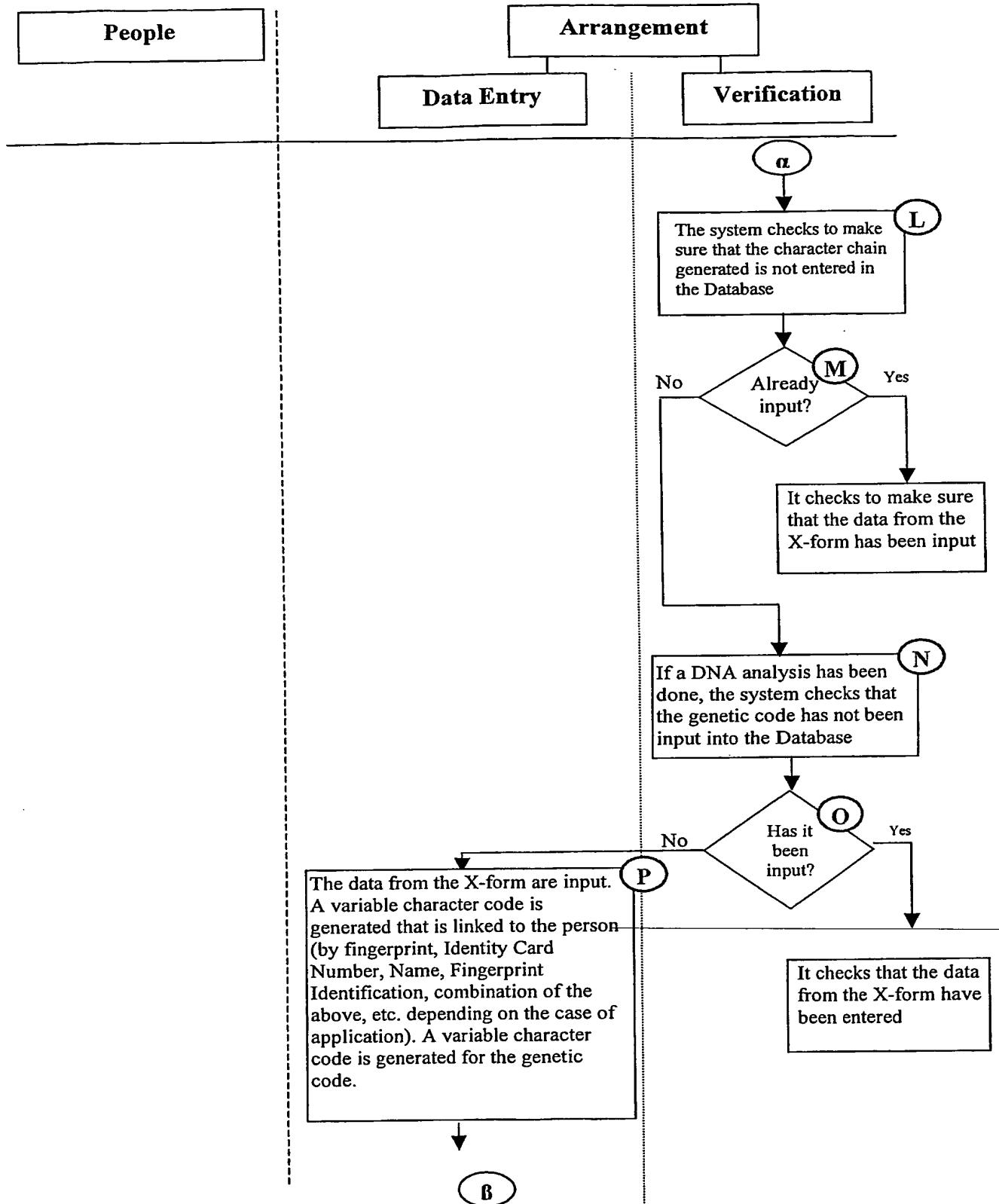


Figure 1A**Step 1) Entering a person's data in the database**



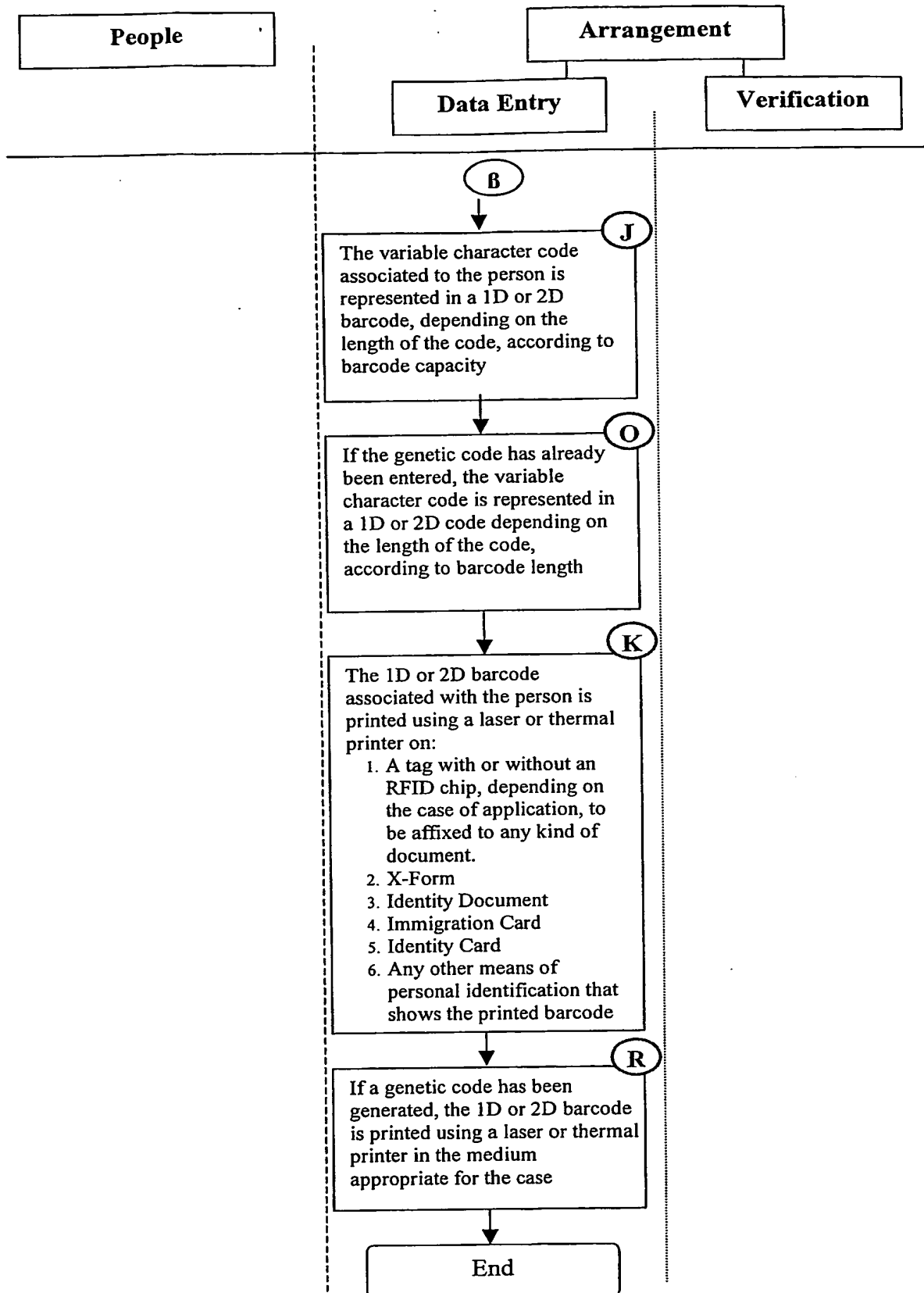


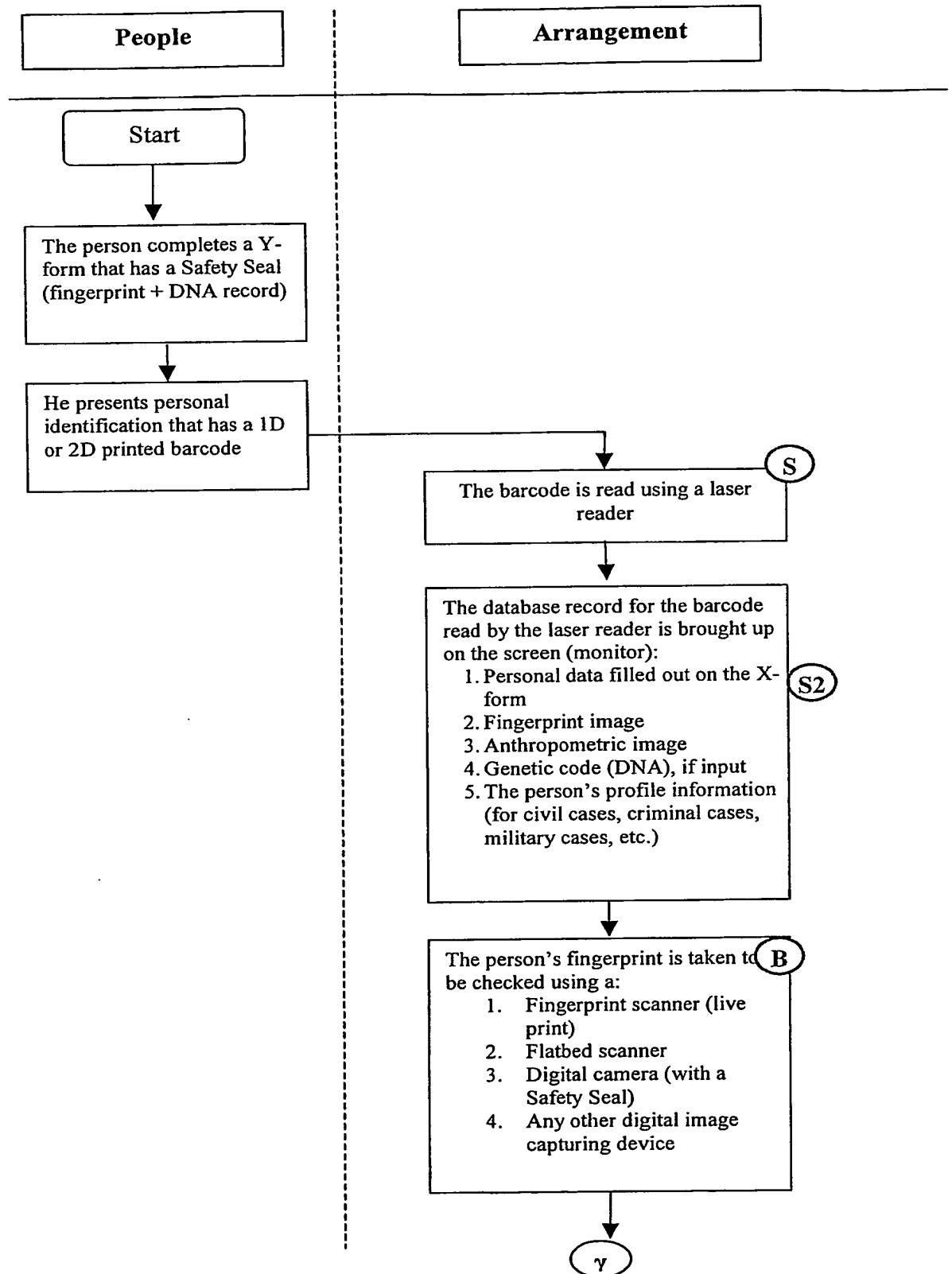
Figure 2A**Step 2) Verifying a Person's Identity**

Figure 2B

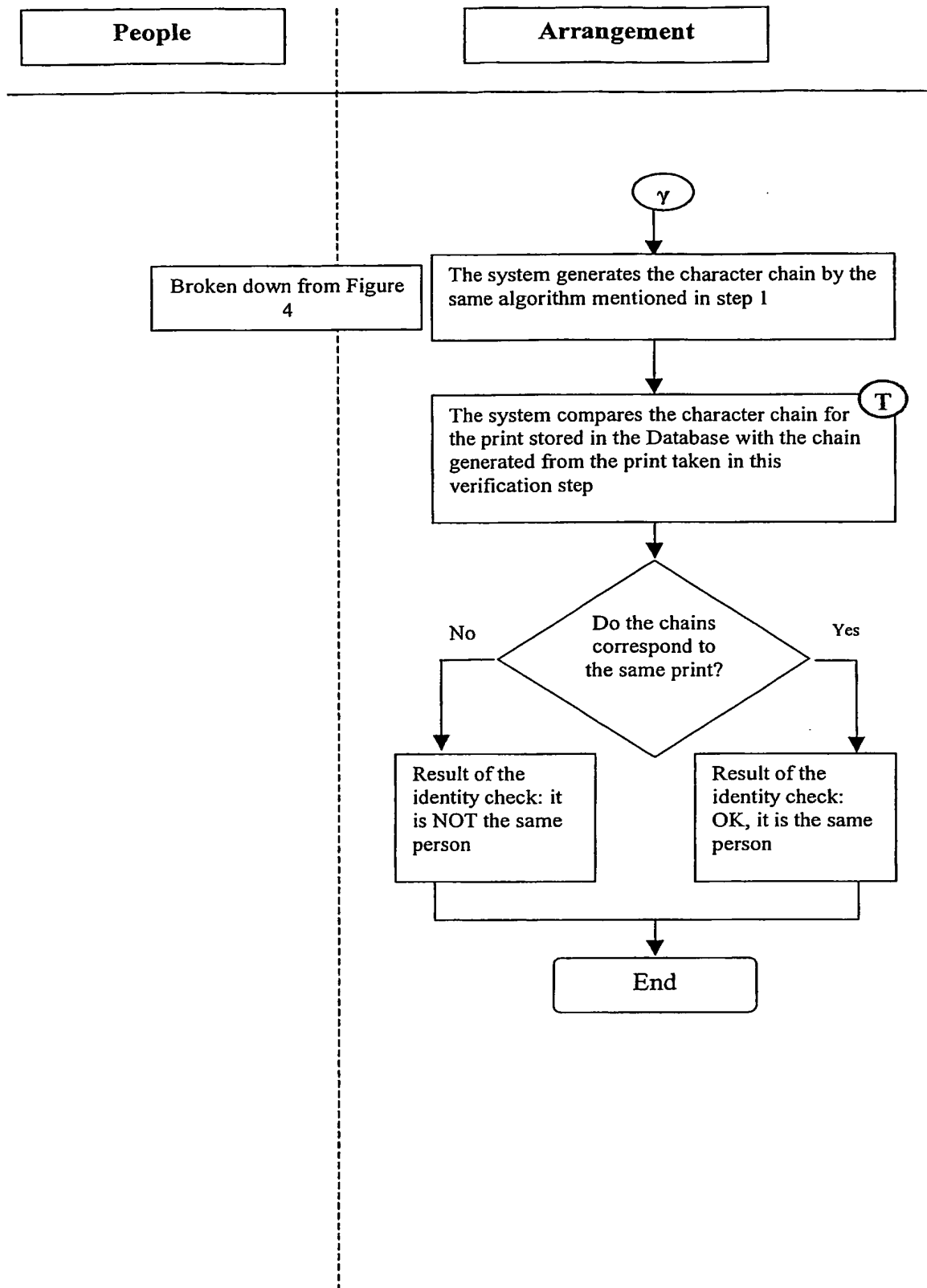


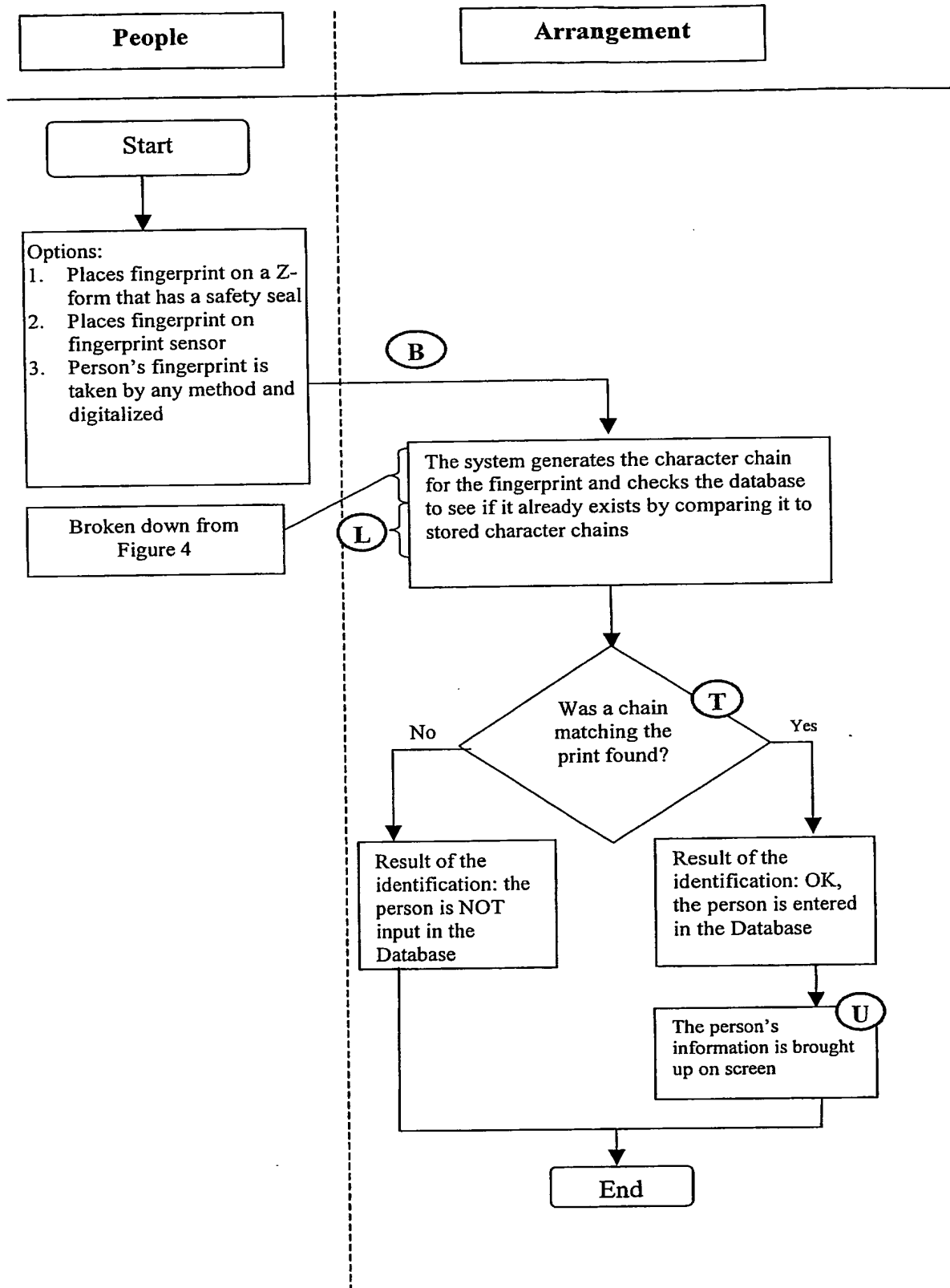
Figure 3A**Step 3) Identifying a Person by a fingerprint**

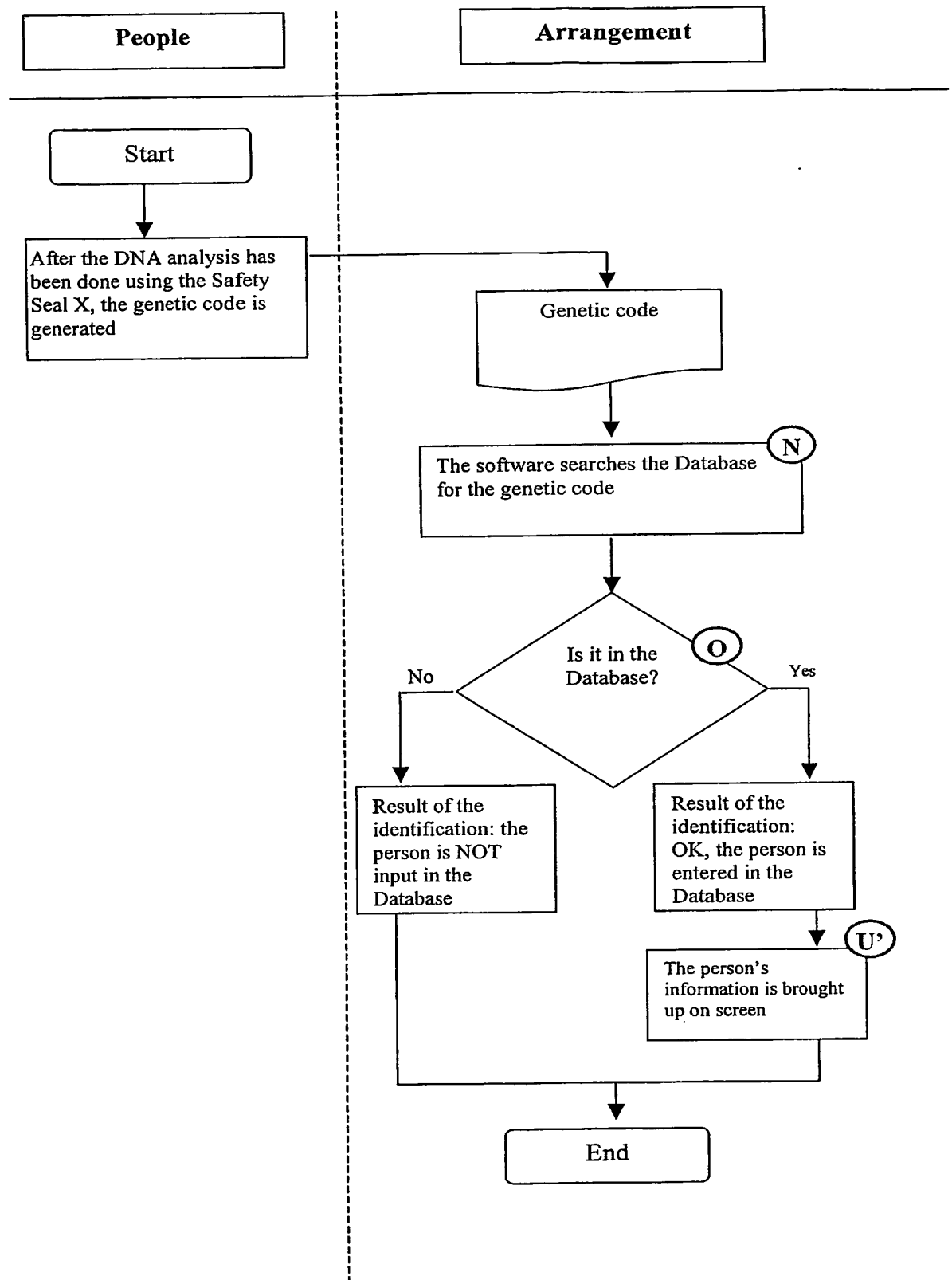
Figure 3B**Step 3) Identifying a Person by DNA**

Figure 4

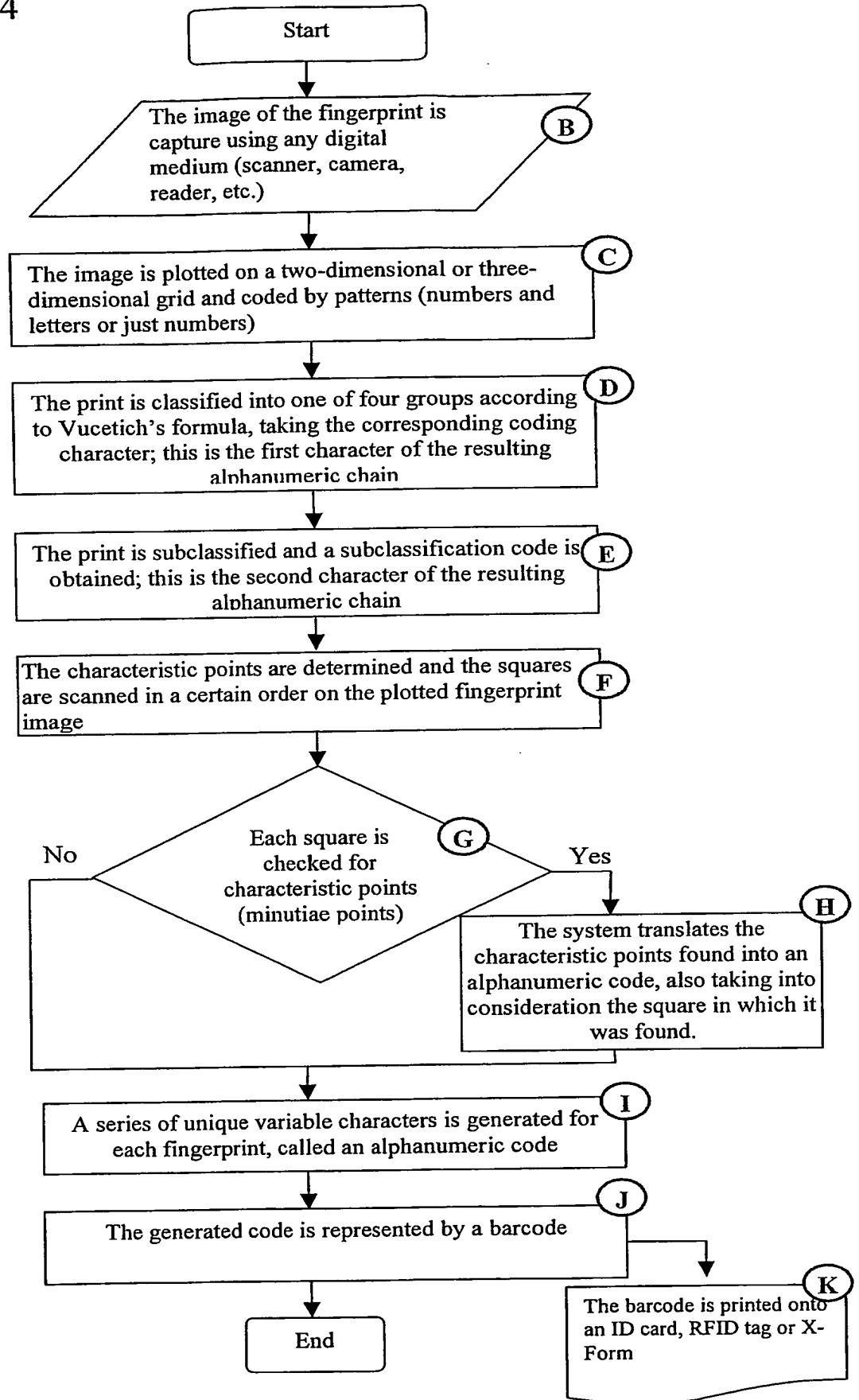


Figure 5

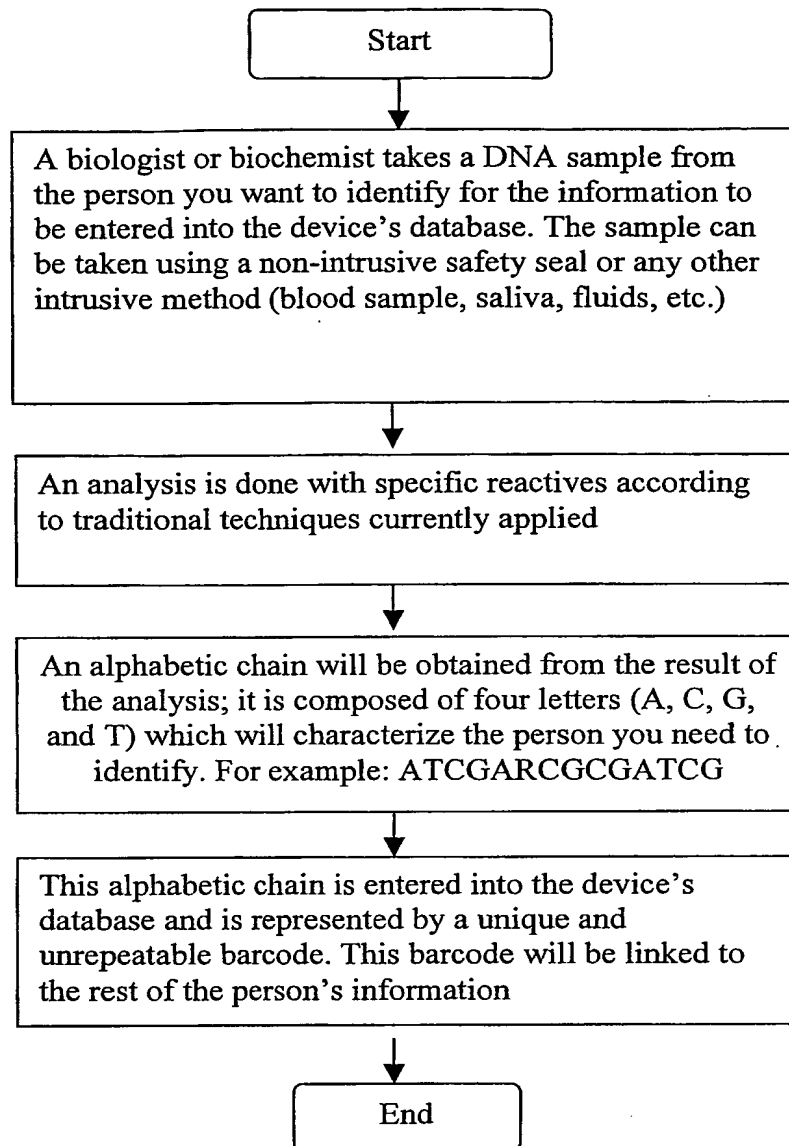
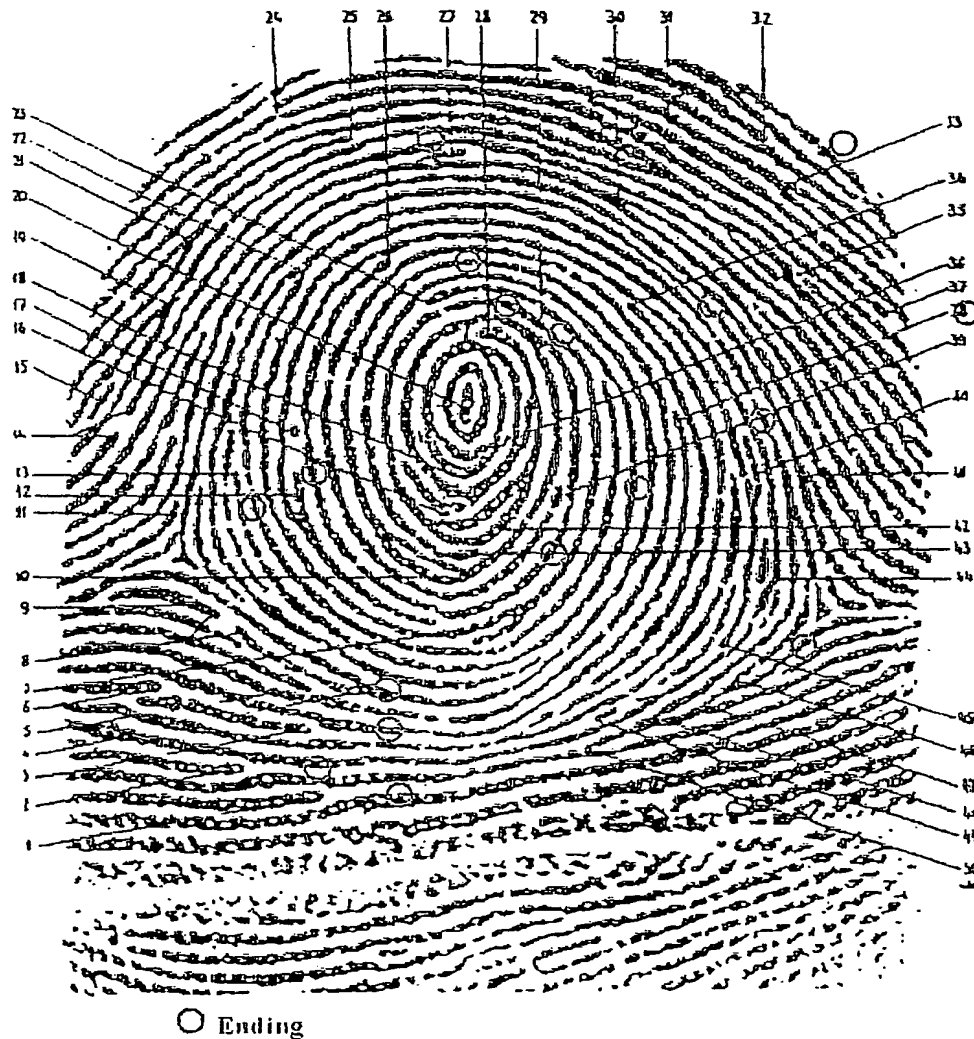


Figure 6

Infograph of a fingerprint and its characteristic points (minutiae points)



MARKED CHARACTERISTIC POINTS

The image shows the following points: 1, 2, 3 Ending; 4 Bifurcation; 5 Ending; 6 Deviation; 7 Bifurcation (lower outer branch cut); 8 Interruption; 9 Large fragment; 10 Large island; 11 Ending; 12 Bifurcation (inner upper branch cut); 13 Ending; 14 Interruption; 15 Fragment; 16 Bifurcation (outer branch cut); 17 Dot; 18 Large island; 19 Convergence; 20 Fragment; 21 Convergence; 22 Convergence; 23 Ending; 24 Interruption; 25 Ending; 26 Ending; 27 Small fragment; 28 Ending; 29 Bifurcation; 30 Bifurcation; 31 Convergence; 32 Ending; 33 Bifurcation; 34 Ending; 35 Transversal; 36 Bifurcation; 37, 38, 39 Ending; 40 Convergence (outer branch cut); 41 Bifurcation; 42 Large island; 43 Ending; 44 Transversal; 45 Ending; 46, 47, 48 Convergence; 49 Small fragment; 50 Convergence.

Figure 7

INFOGRAPH OF GRID MODEL

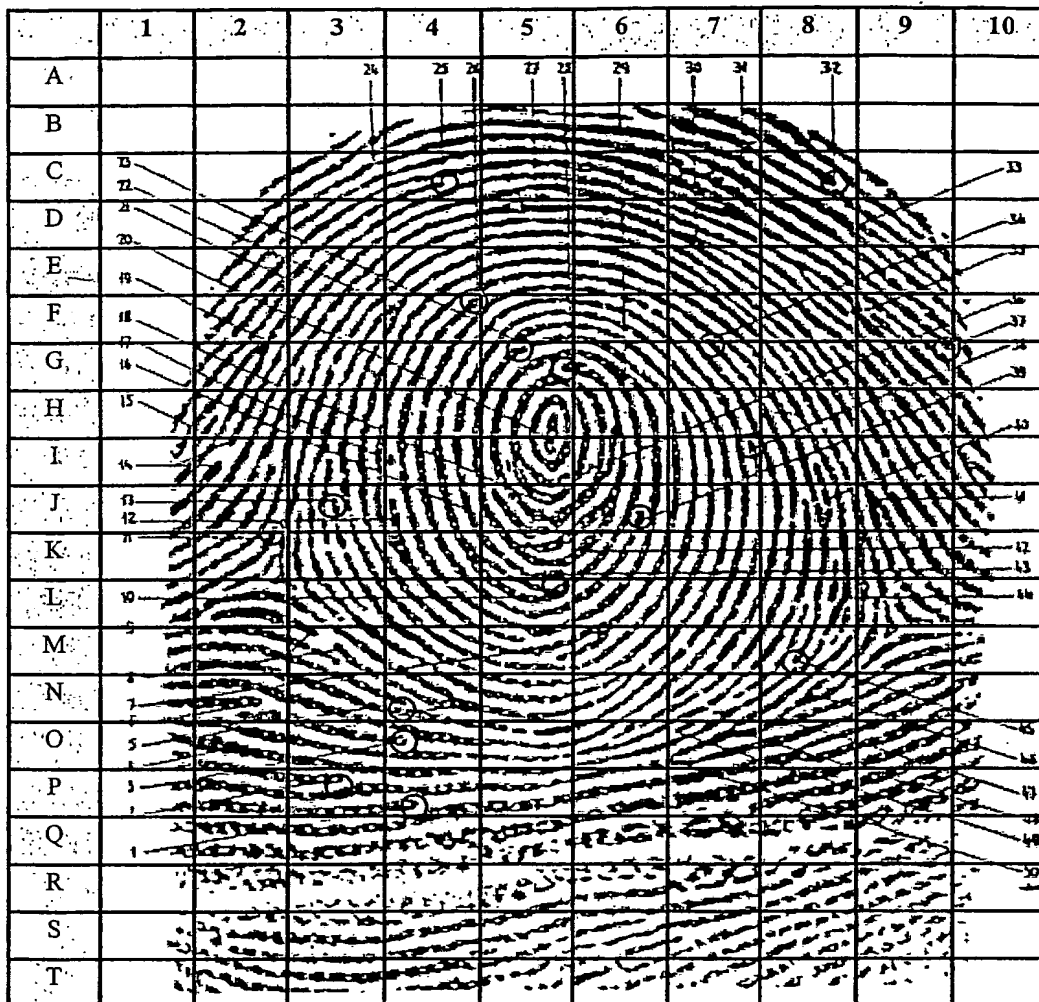
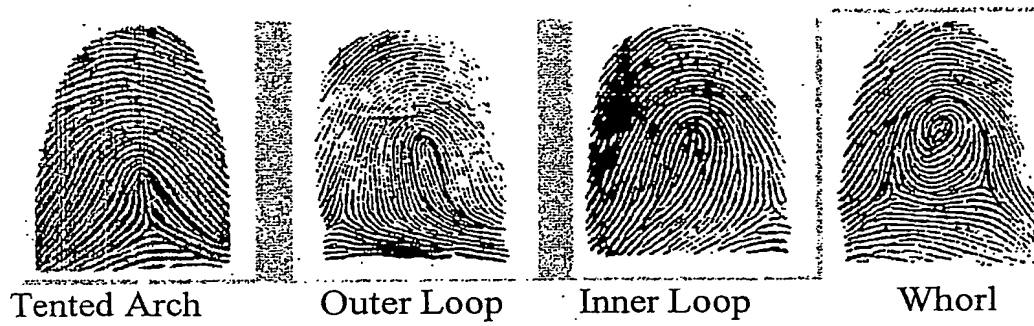


Figure 8



TYPE	THUMBS	OTHER FINGERS
Arch	A	1
Inner Loop	I	2
Outer Loop	E	3
Whorl	V	4

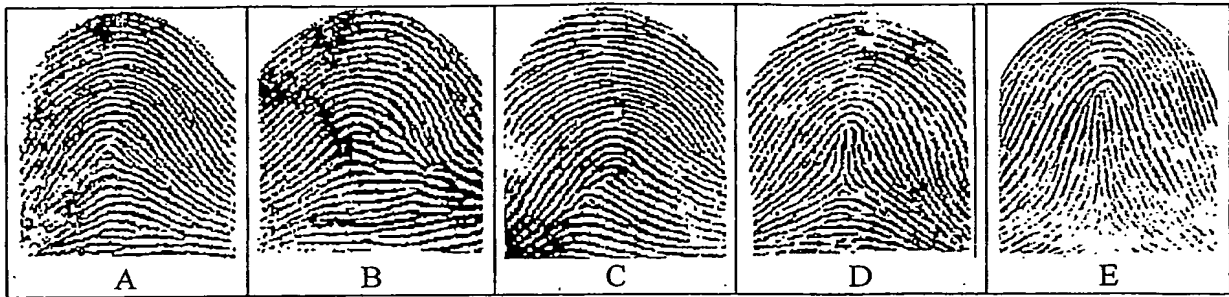


Figure 9

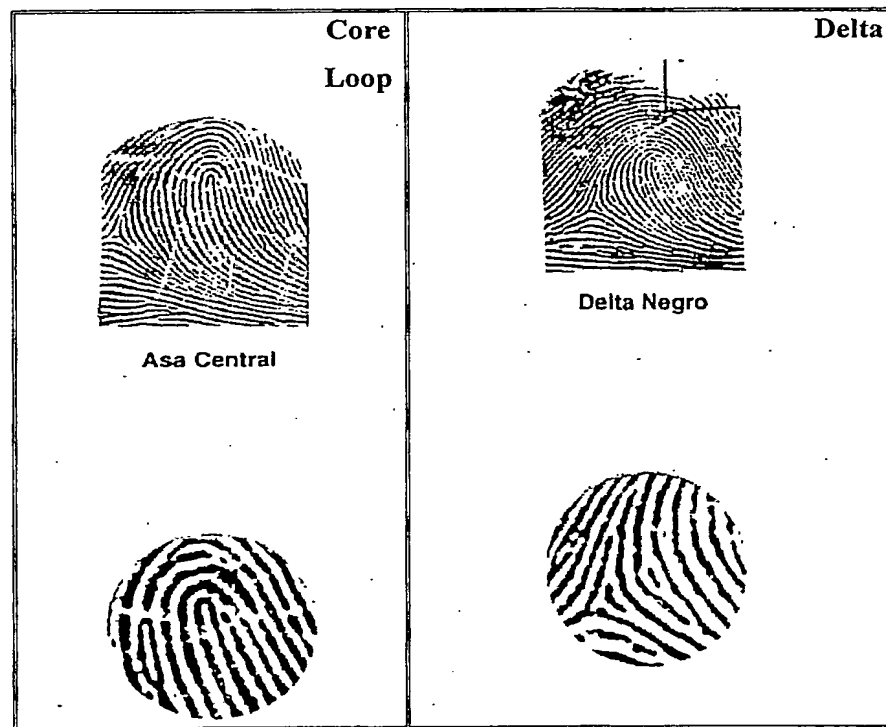


Figure 10

[text in Figure 5]
Delta Negro = Black Delta

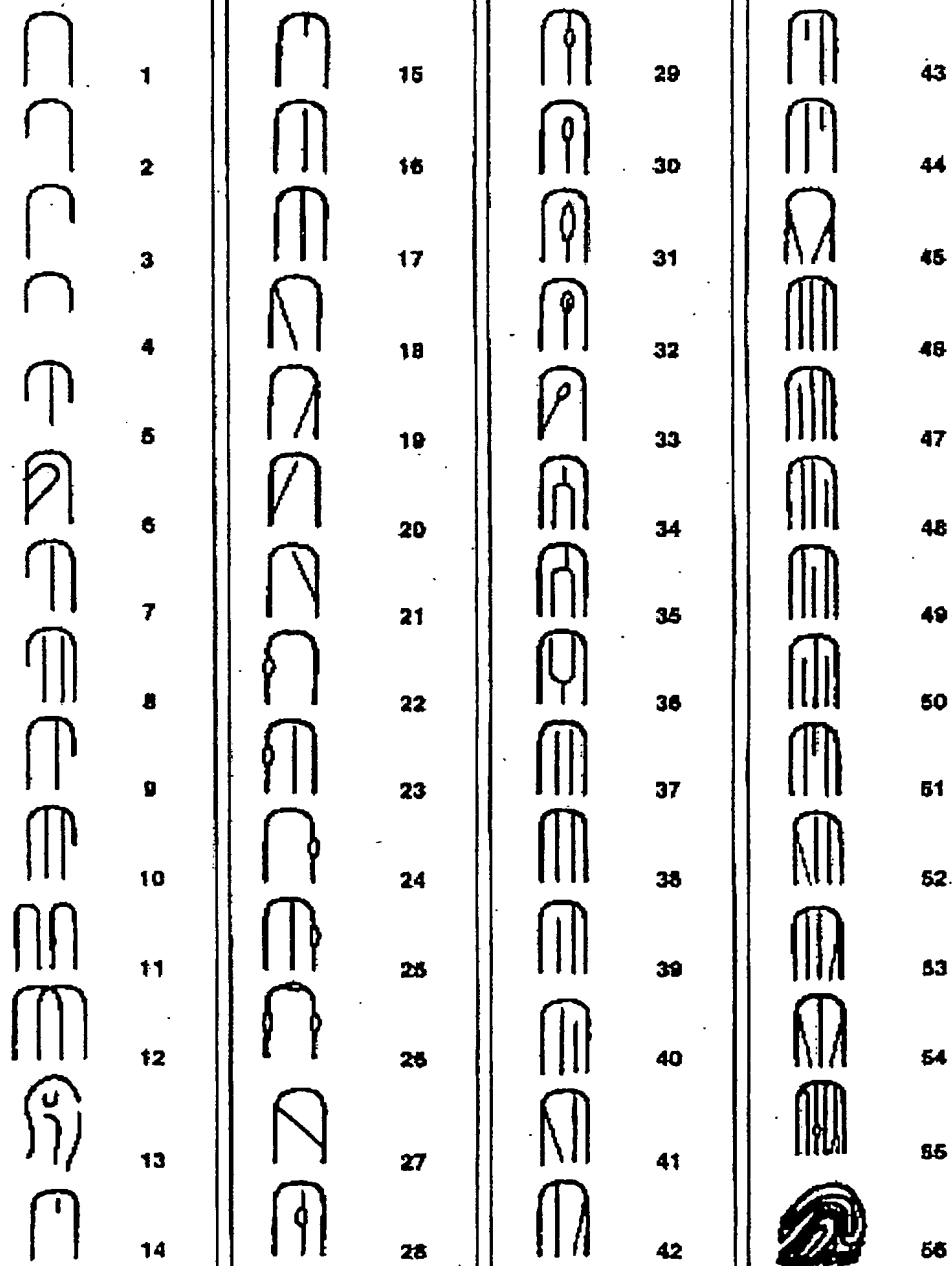


Figure 11

Figure 12A

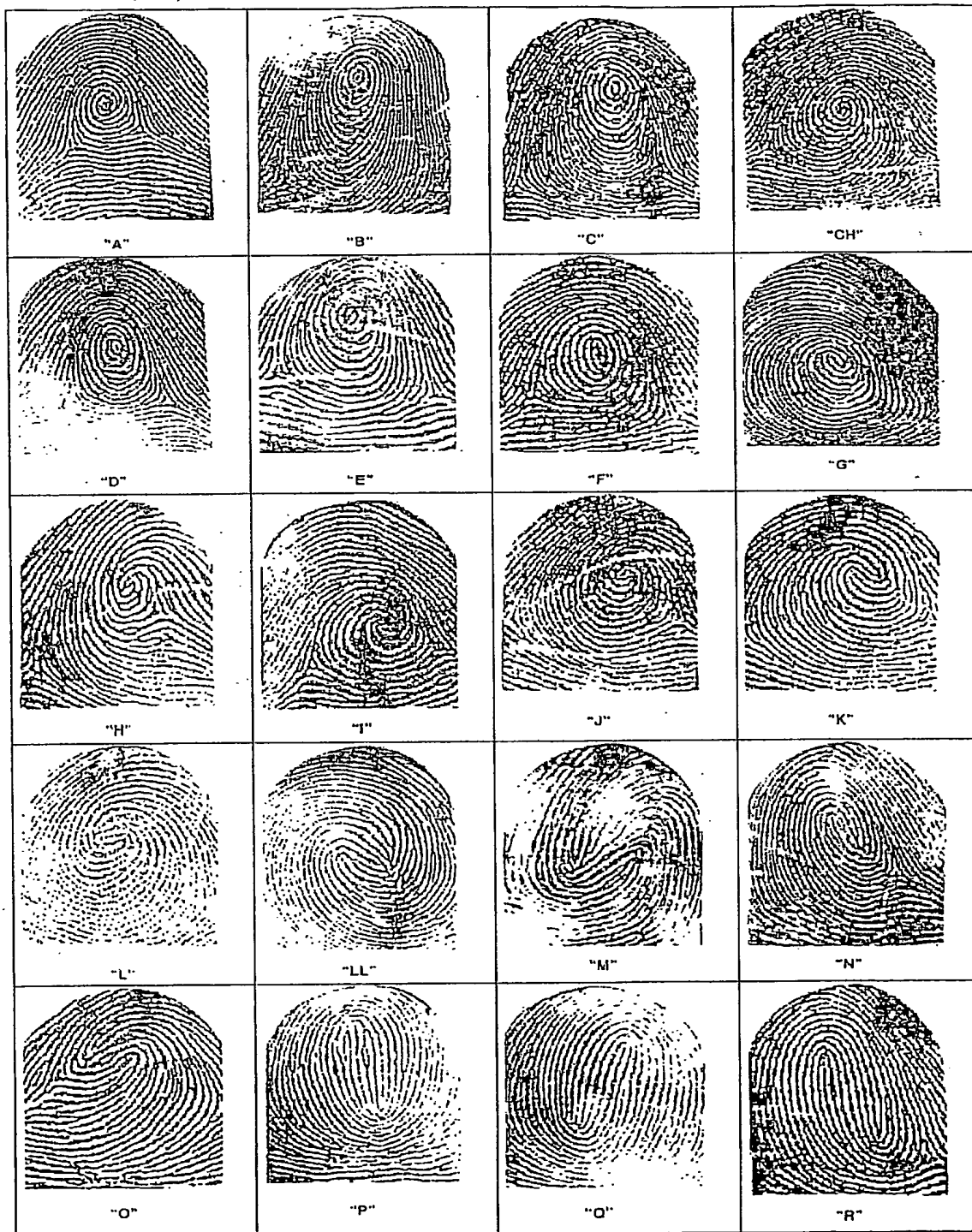












Figure 12B



Digitalized Fingerprint Card

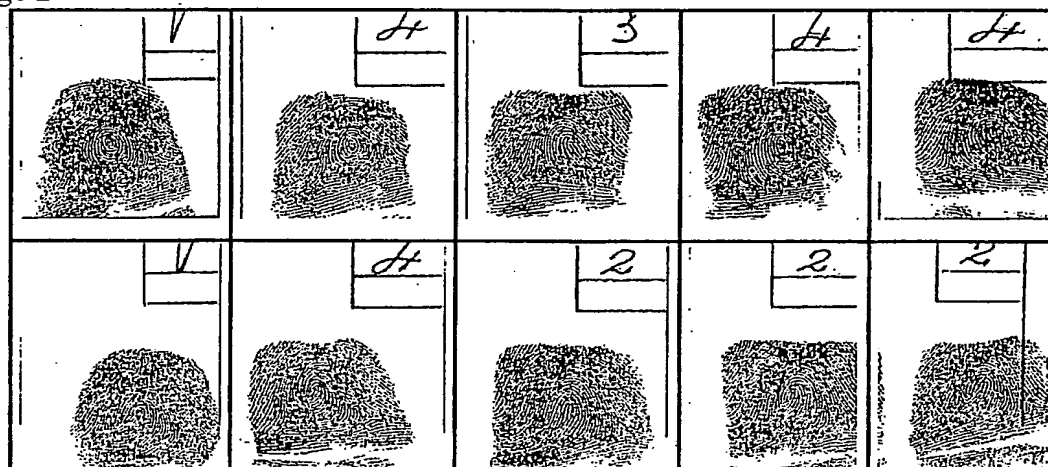
Image 1

REPUBLICA ARGENTINA MINISTERIO DEL INTERIOR POLICIA FEDERAL ARGENTINA SUPERINTENDENCIA TECNICA SISTEMA DACTILOSCOPICO ARGENTINO CREADO POR JUAN VUCETICH EN 1891	MANO DERECHA					
	MANO IZQUIERDA					
		V	H	3	H	H
		V	H	2	2	2
		RECORDED	INDEXES	MIDDLE	RINGS	MEANINGS

Informada por

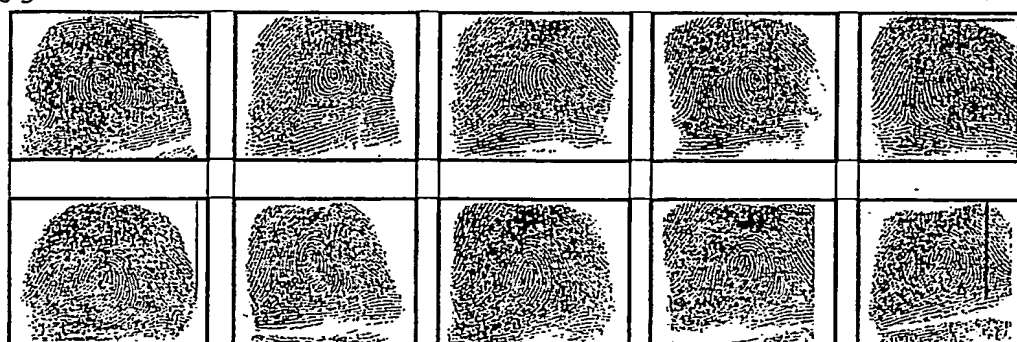
Multiple Segmentation

Image 2



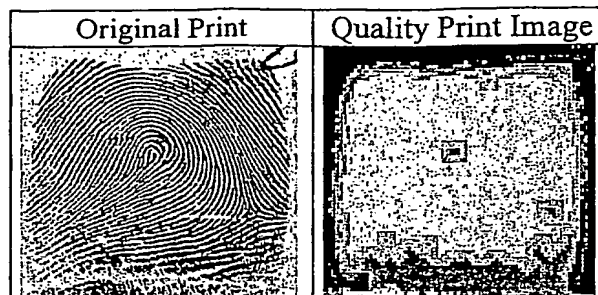
Individual Segmentation

Image 3



Quality

Image 4



Each 8 x 8 block of pixels is assigned a value—0, 1, 2, 3, or 4—representing the quality level of the block. In turn, each value represents a quality percentage and is shown graphically with a color, varying between black and white:

0 = 0 % = black

1 = 25 % = dark gray

2 = 50 % = medium gray

3 = 75 % = light gray

4 = 100 % = white

To obtain the general quality percentage or level of the print, the following formula is applied:

$$\sum \text{values of all blocks} / \text{Number of blocks}$$

Prints with a Marked Core

Image 5

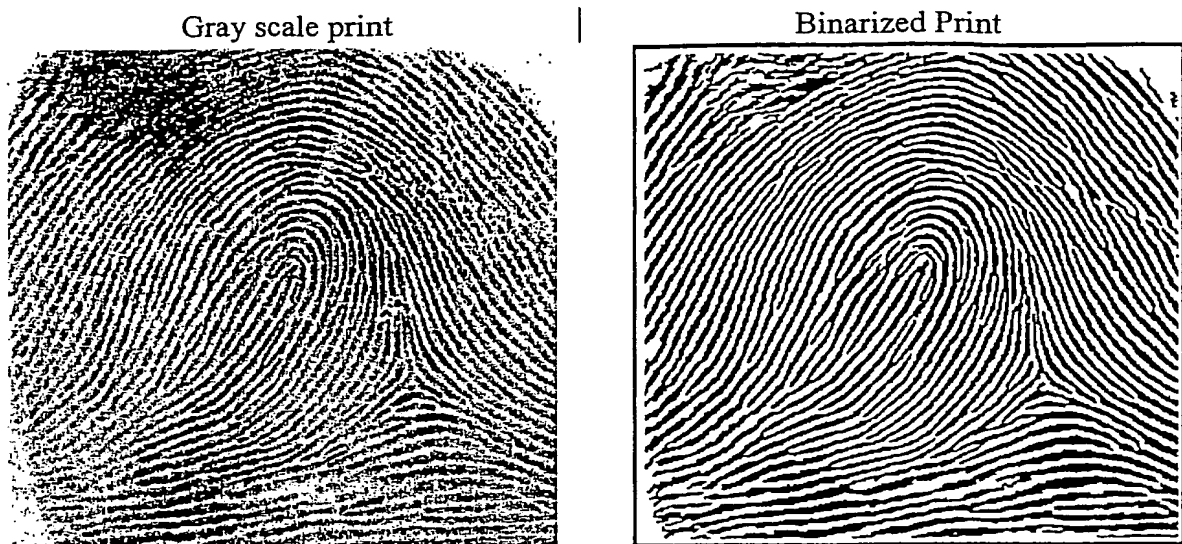


⊕ = Core

⊕ = Delta

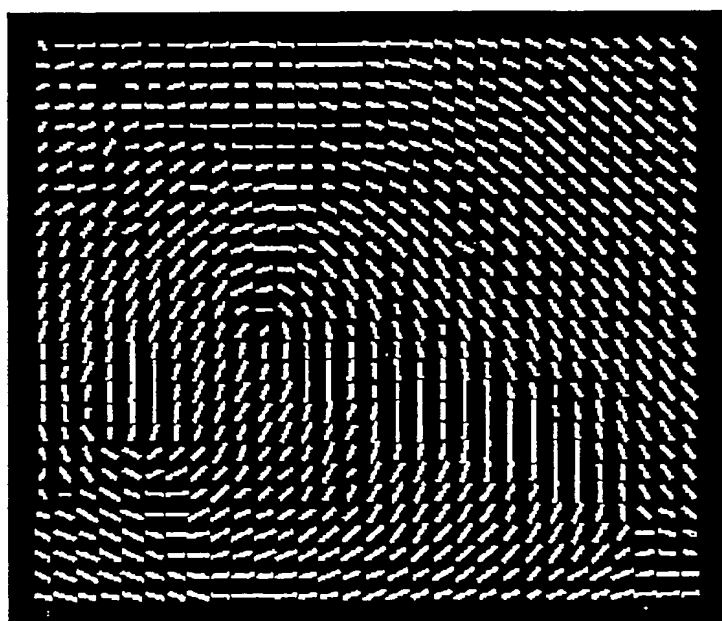
Binarized Print

Image 6



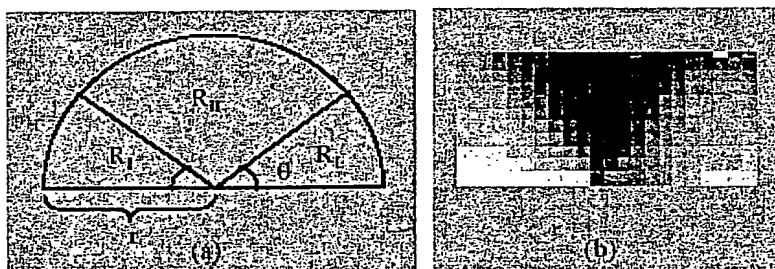
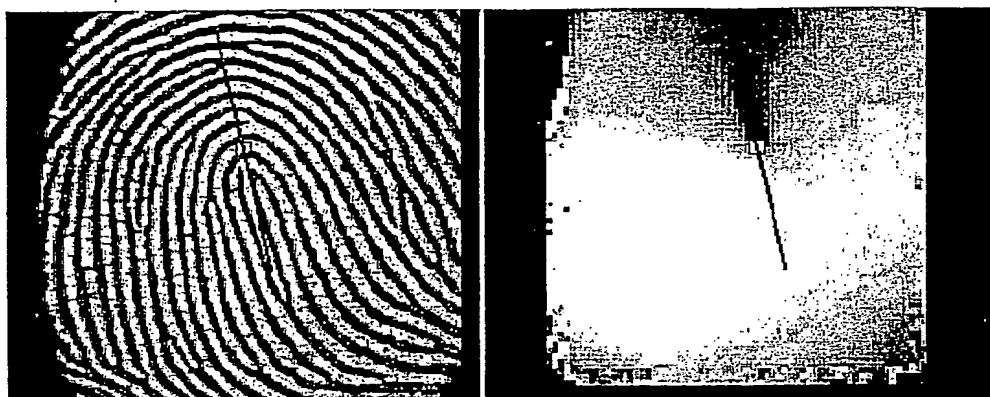
Local Orientation Graph

Image 7



General Orientation Graph of a Print

Image 8



- (a) The circular mask to extract the central point of the print
- (b) Map generated from applying the circular mask

	A	
	B	
	C	
	D	
	E	
	F	
	G	
	H	
	I	
	J	
	K	
	L	
	M	
	N	
	O	
	P	
	Q	
	R	
	S	
	T	
10		
9		
8		
7		
6		
5		
4		
3		
2		
1		

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record.

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☒ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☒ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☒ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.